Application No.: 10/617,786

Amendment dated: December 23, 2004 Reply to Office Action of: August 3, 2004

AMENDMENTS TO THE SPECIFICATION:

Page 3, replace paragraph 10 (bridging pages 3 and 4), as follows:

Referring to FIGS. 1 to 4, a break apart bicycle constructed in accordance with a first preferred embodiment of the invention is shown. Each component of the bicycle will be described in detail below. The bicycle comprises a front frame section 10 and a rear frame section 30 adapted to assemble with the front frame section 10. The front frame section 10 comprises a head tube 12, a fork 14, handlebars 13, a front wheel 15 releasably coupled to the fork 14 by mean of a first quick release 16, a first crossbar 17, a second crossbar 18, and a down tube 11 extended rearward from the head tube 12 to be adapted to connect to a sleeve 32 formed obliquely at a forward side of a bottom bracket 31 which is formed on the rear frame section 30 by welding in which a second quick release 23 is used to fasten the down tube 11 and the sleeve 32 together as detailed later. A joint tube 19, as a part of seat tube; is connectable to a seat post 22 and a seat tube 36 by means of third and fourth quick releases, 25 and 26 respectively, thereby forming a complete seat tube. A saddle 21 is mounted on the seat post 22. The seat tube 36 is extended upward from the bottom bracket 31. Note that the down tube 11 is substantially perpendicular with respect to the seat tubes 22 and 36. This has a benefit of increasing the structural strength of the assembled bicycle. Further, a disassembly of the above detachable components (e.g., the down tube 11, the seat tubes post 22 and seat tube 36, and the front wheel 15) is obvious to those skilled in the art. Thus a detailed description thereof is omitted herein for the sake of brevity. It is seen that the bicycle components can be put together compactly so as to save storage space, for example while going for an outing by driving a car.

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Page 4, replace the first full paragraph (bridging pages 4 and 5), as follows:

The first crossbar 17 is coupled to about an intermediate portion of the down tube 11 by welding. The second crossbar 18, as reinforcement, is coupled between the first crossbar 17 and the head tube 12. The joint tube 19 is at the rear end of the first crossbar 17. Also, at least one longitudinal slit 27 is formed at an upper end 20 of the joint tube 19 for permitting the upper end 20 of the joint tube 19 to slightly deform for receiving and fastening the seat post 22 by means of the third quick release 25. Likewise, at least one longitudinal slit 43 is formed at an upper end 42 of the seat tube 36 for permitting the upper end 42 of the seat tube 36 to slightly deform for receiving and fastening the joint tube 19 by means of the fourth quick release 26.

Page 5, replace paragraph 3 (bridging pages 5 and 6), as follows:

Referring to FIG. 6, there is shown the detached bicycle stored in a compact manner for facilitating storage, delivery, or outing. In detail, the front frame section 10, the rear frame section 30, and even the front wheel 15 are detached. Also, the handlebars 13 and the fork 14 are turned about 90 degrees to be parallel with the down tube 11, the first crossbar 17, and the second crossbar 18. Further, the detached seat post 22 is again inserted into the joint tube 19 at a lowest position with the seat 21 mounted on the seat post 22. Furthermore, one (or more) of the detached front frame section 10, the rear frame section 30, the front wheel 15, and the seat post 22 is (or are) inserted into gaps of the bicycle in a storage state or put together compactly for saving storage space. Alternatively, one (or more) of the detached front frame section 10, the rear frame section 30, the front wheel 15, and the seat post 22 is (or are) packed

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by a large bag. Preferably, material for packing the detached bicycle can be further reduced up to 60 further. Thus, cost related to storage or delivery borne on the manufacturer is significantly reduced. Moreover, the invention is beneficial for being easy in assembly or disassembly in which skill is not important in assembling or detaching the bicycle in any place any time. In other words, the assembly or disassembly of the bicycle can be done in a do-it-yourself manner.

Page 6, replace the first full paragraph, as follows:

Referring to FIGS. 7 and 8, a second preferred embodiment of the invention is illustrated. The second preferred embodiment substantially has same structure as the first preferred embodiment. The differences between the first and the second preferred embodiments, i.e., the characteristics of the second preferred embodiment are detailed below. A waterproof union nut 84 is used in place of the fourth quick release 26. The union nut 84 comprises an internal threaded section. Also, an external threaded section 85 is formed at a top end of the seat tube 36. The union nut 84 is thus secured to the seat tube 36 by threadedly coupling the internal threaded section thereof to the external threaded section 85 of the seat tube 36. Moreover, an annular flange 68 is formed at a lower end of the seat post 22 joint tube 19 for securing to the union nut 84 by snapping. As an end, the joint tube 19 and the seat tube 36 are fastened together by the union nut 84. The union nut 84 also has the benefit of preventing rain from falling into the seat tube 36.